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Precalculus with Limits, Pupil Edition

The program offers an ideal transition from Algebra 2 to Calculus by building upon and extending the prerequisite concepts and skills, then introducing more advanced concepts and applications. The program provides students with carefully structured explanations of key concepts, supported by abundant examples with step-by-step solutions. Examples and exercises requiring a graphing calculator are indicated by a special symbol. For classrooms in which not all students have constant access to a graphing calculator, these problems can be omitted without disrupting the continuity of the course.

Teacher Edition	
9780618753130 Precalculus with Limits, Teacher Edition	$116.37
Essential Items	
Ancillary Items	
Free with Purchase items	
9780547049830 Precalculus with Limits ExamView Test Generator Upon request, one per teacher, year of purchase.	$177.63
9780618643509 Precalculus with Limits Complete Solutions Guide Upon request, one per teacher, year of purchase.	$29.07
9780618643516 Precalculus with Limits Test Item File Upon request, one per teacher, year of purchase.	$8.97
9780618643530 Precalculus with Limits DVD Program Upon request, one per teacher, year of purchase.	$32.67
9780618643547 Precalculus with Limits HM ClassPrep with HM Testing CD-ROM Upon request, one per teacher, year of purchase.	$99.87
9780618660926 Precalculus with Limits Student Solutions Guide Upon request, one per student edition purchased, Initial year of purchase.	$38.37
9780618761357 Precalculus with Limits HM MathSpace Student CD-ROM Upon request, one per student edition purchased, Initial year of purchase.	$10.17
9780618761364 Precalculus with Limits Note-Taking Guide Upon request, one per student edition purchased, Initial year of purchase.	$5.67
9780618979585 Precalculus with Limits Power Presentations: The Electronic Upon request, one per teacher, year of purchase.	$10.17

ISBN
9780618660902

Contract Price
$115.47

Grade
11, 12

TYPE
P1

Copyright
2007

Author
Larson, et al.

Edition
1st

Content
PreCalculus

Readability
10.6 Dale Chall Score

Accessibility
Nimas MathML

Research
Contact sales representative for assistance

Provided by the Publisher

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Precalculus with Limits, Pupil Edition			
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Copyright - 2007	Edition - 1st	Readability -	10.6 Dale Chall Score
Course - PreCalculus		Grade(s) -	11, 12
Teacher Edition ISBN if applicable 9780618753130			

Provided by the Publisher

Overall Recommendation: **Recommended as BASAL**

if this box is not checked, the evaluators have chosen NOT recommend as basal

Overall Strengths, Weaknesses, Comments:

The text is very student friendly and readable by students.

NIMAC Accessibility	NML	
Ancillary	Yes	
Free with Purchase	Yes	
Research	Yes	Contact sales representative for assistance

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CRITERIA

This basal resource …

A. Encompasses KY Content Standards & Grade Level Expectations **Strong Evidence**

Text is designed to be used in an elective course outside the Program of Studies

1) Includes the 5 Big Ideas of mathematics to the following extent:	
a) Number Properties and Operations	Strong Evidence
b) Measurement	Little or No Evidence
c) Geometry	Moderate Evidence
d) Data Analysis and Probability	Little or No Evidence
e) Algebraic Thinking	Strong Evidence
2) Addresses content-specific enduring understandings from the related Program of Studies standards.	Strong Evidence
3) Addresses content-specific skills and concepts from the related	Strong Evidence

Program of Studies standards.

4) Content addressed is current, relevant and non-trivial	Moderate Evidence
5) Provides opportunities for critical thinking/reasoning	Strong Evidence

6) Strengths, Weaknesses, Comments:

- Specific strengths-which areas/concepts are covered exceptionally well?
- Specific weaknesses-which areas/concepts would likely require supplementing?

Click here to enter text.

B. Functionality & Suitability — Strong Evidence

1) Suitability — **Strong Evidence**

- Should be suitable for use with a diverse population and is free of bias regarding race, age, ethnicity, gender, religion, social and/or geographic environment; is free of stereotyping or bias of any kind.

2) Content quality — **Strong Evidence**

- Free from factual errors
- Content is presented conceptually when possible—more than a mere collection of facts
- Content included accurately represents the knowledge base of the discipline
- Theories/scientific models contained represent a broad consensus of the scientific community
- Interconnections among mathematical topics

3) Connections to Literacy — **Strong Evidence**

- Employs a variety of reading levels and is grade/level appropriate
- Use of multiple representations-concrete, visual/spatial, graphs, charts, etc.
- Provides opportunities for summarizing, reviewing, and reinforcing vocabulary skills and concepts at multiple levels of difficulty for a variety of learning styles.
- Student text provides opportunity to integrate reading and writing
- Uses vocabulary that is age and content appropriate
- Focuses on critical vocabulary vs. extensive lists
- Identifies key vocabulary through definitions in both text and glossary
- The text is engaging and facilitates learning
- Embedded activities enhance the understanding of the text
  Note: may apply to either student or teacher editions

4) Connections to Technology — **Strong Evidence**

- Integrates technology and reflects the impact of technological advances
- Uses technology in the collection and/or manipulation of authentic data
- Embeds web links as a mathematics resource.

5) Support for Diverse Learners — **Strong Evidence**

- Provides support for ESL students

- Provides support for differentiation of instruction in diverse classrooms
- Challenge for gifted and talented students
- Support for students with learning difficulties
  Note: may apply to either student or teacher editions

6) Strengths, Weaknesses, Comments:

- Reviewers may provide page numbers to point out specific strong examples for individual evaluation standards.

Teacher text references strategies for differentiating instructions for different learning styles, ESL students, and students having difficulties.

C. Supports Inquiry and Skill Development **Strong Evidence**

1) Promotes Inquiry, research and Application of Learning Strong Evidence

- Provides opportunities for inquiry and research that includes activities such as gathering information, researching resources, observing, interviewing, and evaluating information, analyzing and synthesizing data and communicating findings and conclusions, formulating authentic questions to deepen and extend mathematical reasoning.
- Requires students to use higher-level cognitive skills (analysis, synthesis, evaluation, generalizing, justifying, etc.)
- Provides activities and projects for students to deepen their knowledge and cultivate and strengthen problem-solving and decision-making skills.
- Provides opportunities for application of learned concepts.
- Uses a variety of relevant charts, graphs, diagrams, number lines, and other illustrations to invite and motivate students to engage in discussion, problem solving, and other high-order thinking skills.
- Emphasizes conceptual understandings that invite students to predict, conclude, evaluate, develop and extend ideas to support reasoning.
  Note: may apply to either teacher or student edition

2) Skill Development Strong Evidence

- Provides opportunities to make sense of all mathematics
- Provides opportunities to recognize, create, and extend patterns.
- Provides opportunities for critical thinking and reasoning.
- Provides opportunities to justify/prove responses.
- Provides opportunities to ask deeper questions.
- Contains embedded activities (or extensions) that emphasize use of technology for problem solving
  Note: may apply to either teacher or student edition

3) Strengths, Weaknesses, Comments:

Click here to enter text.

D. Supports Best Practices of Teaching and Learning **Strong Evidence**

1) Engages Students Moderate Evidence

- Includes content geared to the needs, interests, and abilities of all students
- Engages and motivates students using components such as real-life situations, simulations, experiments, and data gathering.
- Includes information and activities that assist students in seeing relevance of concepts (where appropriate) to their own lives and experiences
- Provides a variety of strategies, activities, and materials to enhance student learning at the appropriate learning levels
- Activities are truly congruent to the concepts addressed, not merely correlated
  Note: may apply to either teacher or student edition

2) Uses Assessment to Inform Instruction Strong Evidence

- Includes multiple means of assessment as an integral part of instruction
- Provides evaluation measures in the teacher edition that supports differentiated learning activities
- Embedded assessments reflect a variety of Depth of Knowledge levels
  Note: may apply to either teacher or student edition

3) Strengths, Weaknesses, Comments:

- Reviewers may provide page numbers to point out specific strong examples for individual evaluation standards

The end of each chapter has a section labeled “problem solving” which may or may not be used as group work but requires students to expand upon ideas learned in the chapter. The teacher edition also refers to “homework quizzes” which can be used for more formative assessment.

E. Has an Organization/ Format that Supports Learning and Teaching **Strong Evidence**

1) Organizational Quality Strong Evidence

- Print and/or electronic materials present minimal barriers to learners, but also add encouragement for students to stretch and make further explorations.
- Presents chapters/lessons in an organized and logical sequence
- Provides clearly stated objectives for each lesson.
- Uses text features (e.g., titles, headings, subheadings, review questions, goals, objectives, space, print, type size, color) to enhance readability.
- Makes use of various forms of media (e.g., CD’s, recordings, videos, cassette tapes, computer software, web-based components, interactive software, calculators, physical and virtual manipulatives) as either student or teacher resources
- Includes clear, accurate, appropriate and clearly explained illustrations and/or graphics that reinforce content standards.
- Incorporates a glossary, footnotes, recordings, pictures, and/or tests that aid pupils and teachers in using the book effectively
- Uses grade-appropriate type size
- Included media are durable, easy to use and have technical merit
- Construction appears to be durable and able to withstand normal use

2) Essential Components (beyond student and teacher text) Little or No Evidence

- Items identified as essential components support the learning goals and concept coverage of the basal

3) Strengths, Weaknesses, Comments:

- Reviewers may provide page numbers to point out specific strong examples for individual evaluation standards.

Teacher and student texts tell both what the objectives are and why the student should learn them.

No essential components identified.

F. Has available Ancillary/ Gratis Materials

Note: The decision whether to recommend or not recommend this resource as a basal should not be influenced by Section F

Strong Evidence

1) Ancillary/Gratis Materials

- Coordinates teacher resources easily with student material (e.g., accompaniments included, student pages shown, instructional technology indicated).
- Are well-organized and easy to use
- Provide substantive learning opportunities and are congruent with student learning goals
- Provide opportunities for high-level thinking, assessment, and/or problem solving
- Provides opportunities for intervention.

2) Strengths, Weaknesses, Comments:

- Reviewers may provide page numbers to point out specific strong examples for individual evaluation standards.

Free with order includes a Note taking Guide for students. Several other resources for the teacher.